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QUESTION 1

Which of the following is the process of salvaging data from damaged, failed, corrupted, or inaccessible secondary storage media when it cannot be accessed normally?

- A. Data handling
- B. Data recovery
- C. Data Erasure
- D. Data breach

Correct Answer: B

Data recovery is the process of recovering data from damaged, failed, corrupted, or inaccessible secondary storage device when it cannot be accessed normally. Often the data are being recovered from storage media like internal or external hard disk drives, solid-state drives (SSD).

USB drive, storage tapes, and other electronics. Recovery may be required due to physical damage to the storage device or logical damage to the file system that prevents it from being mounted by the host operating system. Answer options D, A, and C are incorrect. These are not valid op

QUESTION 2

Which of the following contains the complete terms and conditions which both the partners agree to be bound by as a participant in the partner program?

- A. Business Partner Agreement
- B. Document automation
- C. Indenture
- D. Implicit contract

Correct Answer: A

Business Partner Agreement (BPA) contains the complete terms and conditions which both the partners agree to be bound by as a participant in the partner program. This program comes into action once the application to participate in the Program is accepted by both the partners. Answer option B is incorrect. Document automation is the design of systems and workflow that assist in the creation of electronic documents.

Answer option D is incorrect. Implicit contract refers to voluntary and self-enforcing long term agreements made between two parties regarding the future exchange of goods or services.

Answer option C is incorrect. An indenture is a legal contract reflecting a debt or purchase obligation, specifically referring to two types of practices: in historical usage, an indentured servant status, and in modern usage, an instrument used for commercial debt or real estate transaction.

QUESTION 3



Which of the following is an automated software testing technique that involves providing invalid, unexpected, or random data to the inputs of a computer program?

- A. Gray box testing
- B. White box testing
- C. Black box testing
- D. Fuzzing

Correct Answer: D

The programs and frameworks that are used to create fuzz tests or perform fuzz testing are called fuzzers. Fuzzing has evolved from a niche technique into a full testing discipline with support from both the security research and traditional QA testing communities. Fuzzing (Fuzz testing) is an automated software testing technique that involves providing invalid, unexpected, or random data to the inputs of a computer program. The program is then monitored for exceptions such as crashes or failing built-in code assertions. Fuzzing is commonly used to test for security problems in software or computer systems.

Answer option C is incorrect. Black box testing is also known as specification-based testing. It ignores the internal logic of an application. It refers to test activities using specification-based testing methods to discover errors in an application. The test activities are based on requirements and specifications of the application. It focuses on the following errors:

Specification-based function errors

Specification-based

component/system behavior errors

Specification-based

performance errors

User-oriented usage errors

Black box interface errors

Answer option B is incorrect. White box testing, also known as Clear box or Glass box testing, takes into account the internal mechanism of a system or application. The connotations of "Clear box" and "Glass box" indicate that a tester has full visibility of the internal workings of the system. It uses knowledge of the internal structure of an application. It is applicable at the unit, integration, and system levels of the software testing process. It consists of the following testing methods:

Control flow-based testing

o Create a graph from source code.

o Describe the flow of control through the control flow graph. o Design test cases to cover certain elements of the graph.

Data flow-based testing

o Test connections between variable definitions.

o Check variation of the control flow graph.



- o Set DEF (n) contains variables that are defined at node n.
- o Set USE (n) are variables that are read.

Answer option A is incorrect. Gray box testing is a combination of black box and white box testing. It is non-intrusive and impartial, as it does not require that a tester have access to the source code. It treats a system as a black box in the sense that it must be analyzed from the outside. Basically, it is used to find out defects related to bad design or bad implementation of the system. This type of testing is more commonly used with Web applications, as the Internet has a pretty stable interface.

QUESTION 4

Mark is responsible for secure programming at his company. He wants to implement steps to validate the security of software design. At what phase in the SDLC should he implement design validation for security?

- A. After the design phase
- B. This is not a part of SDLC
- C. During the testing phase
- D. At every phase

Correct Answer: D

Every phase of the SDLC could potentially change the design, even slightly. Therefore the security of the design must be validated.

Answer option A is incorrect. Yes you would validate the design after the design phase, but this is not the only time you would validate it.

Answer option C is incorrect. Validation would occur during testing, but also during other phases.

Answer option B is incorrect. Design validation should be a part of every phase of the SDLC.

QUESTION 5

Which of the following statements best describe delegation in a network? Each correct answer represents a complete solution. Choose two.

- A. It improves security by limiting broadcasts to the local network.
- B. It is an act or profession of splitting a computer network into subnetworks.
- C. Its usability depends on used authentication method and appropriate account configuration.
- D. It allows a user to use an impersonation token to access network resources.

Correct Answer: CD

Delegation is the assignment of authority and responsibility to another person to carry out specific activities. It allows a user to use an impersonation token to access network resources.



The ability to use delegation depends on used authentication method and appropriate account configuration. User should be careful while using impersonation and delegation because of the additional security and scalability issues caused by it. There are two types of delegation in a network:

Delegation at Authentication/Identity Level

Delegation at Authorization/Access Control Level

Answer options B and A are incorrect. Network segmentation in computer networking is the act or profession of splitting a computer network into subnetworks, each being a network segment or network layer. The advantages of such splitting

are primarily for boosting performance and improving security.

Advantages:

Reduced congestion: improved performance is achieved because on a segmented network, there are fewer hosts per subnetwork, thus minimizing local traffic.

Improved security: Broadcasts will be contained to the local network. Internal network structure will not be visible from outside.

Containing network problems: It limits the effect of local failures on other parts of the network.

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